§179.101 Individual specification requirements applicable to pressure tank car tanks.

table in §179.101. No text or table appears in § 179.101.

EDITORIAL NOTE: At 66 FR 45186, Aug. 28, 2001, an amendment published amending a

§179.101-1 Individual specification requirements.

In addition to §179.100, the individual specification requirements are as follows:

DOT specifica- tion	Insulation	Bursting pressure (psig)	Minimum plate thickness (inches)	Test pressure (psig)	Manway cover thickness	Bottom out- let	Bottom washout	Reference (179.***)
105A100ALW	Yes	500	5/8	100	22 1/2	No	No.	
105A200ALW	Yes	500	5/8	200	² 2 1/2	No	No.	
105A300ALW	Yes	750	5/8	300	22 5/8	No	No.	
105A100W	Yes	500	³ 9/16	100	2 1/4	No	No.	
105A200W	Yes	500	³ 9/16	200	2 1/4	No	No.	
105A300W	Yes	750	111/16	300	⁷ 2 1/4	No	No.	
105A400W	Yes	1,000	111/16	400	⁷ 2 1/4	No	No.	
105A500W	Yes	1,250	¹ 11/16	500	2 1/4	No	No	102-1, 102-2
105A600W	Yes	1,500	111/16	600	2 1/4	No	No	102-4, 102-17
109A100ALW	Optional	500	5/8	100	² 2 1/2	No	Optional.	
109A200ALW	Optional	500	5/8	200	² 2 1/2	No	Optional.	
109A300ALW	Optional	750	5/8	300	² 2 5/8	No	Optional.	
109A300W	Optional	500	111/16	300	2 1/4	No	Optional.	
112A200W	Optional ⁴	500	^{3 5} 9/16	200	2 1/4	No	No.	
112A340W	Optional 4	850	111/16	340	2 1/4	No	No.	
112A400W	Optional 4	1,000	111/16	400	2 1/4	No	No.	
112A500W	Optional 4	1,250	¹ 11/16	500	2 1/4	No	No.	
114A340W	Optional 4	850	111/16	340	6	Optional	Optional	103
114A400W	Optional 4	1,000	111/16	400	6	Optional	Optional	103
120A200ALW	Yes	500	5/8	200	² 2 1/2	Optional	Optional	103
120A100W	Yes	500	³ 9/16	100	2 1/4	Optional	Optional	103
120A200W	Yes	500	³ 9/16	200	2 1/4	Optional	Optional	103
120A300W	Yes	750	¹ 11/16	300	2 1/4	Optional	Optional	103
120A400W	Yes	1,000	111/16	400	2 1/4	Optional	Optional	103
120A500W	Yes	1,250	111/16	500	2 1/4	Optional	Optional	103

[Amdt. 179-52, 61 FR 28679, June 5, 1996 as amended at 66 FR 45390, Aug. 28, 2001; 68 FR 75760, Dec. 31, 2003]

§179.102 Special commodity requirements for pressure tank car tanks.

- (a) In addition to §§179.100 and 179.101 the following requirements are applicable:
 - (b) [Reserved]

§179.102-1 Carbon dioxide. refrigerated liquid.

(a) Tank cars used to transport carbon dioxide, refrigerated liquid must comply with the following special requirements:

(1) All plates for tank, manway nozzle and anchorage of tanks must be made of carbon steel conforming to ASTM A 516/A 516M (IBR, see §171.7 of this subchapter), Grades 55, 60, 65, or 70, or AAR Specification TC 128-78, Grade B. The ASTM A 516/A 516M plate must also meet the Charpy V-Notch test requirements of ASTM A 20/A 20M (see table 16) (IBR, see §171.7 of this subchapter) in the longitudinal direction of rolling. The TC 128 plate must also

¹ When steel of 65,000 to 81,000 p.s.i. minimum tensile strength is used, the thickness of plates shall be not less than ½ inch, and when steel of 81,000 p.s.i. minimum tensile strength is used, the minimum thickness of plate shall be not less than ⅓ inch. ² When approved material other than aluminum alloys are used, the thickness shall be not less than ½ inches. ³ When steel of 65,000 p.s.i. minimum tensile strength is used, minimum thickness of plates shall be not less than ½ inch. ⁴ Tank cars not equipped with a thermal protection or an insulation system used for the transportation of a Class 2 (compressed gas) material must have at least the upper two-thirds of the exterior of the tank, including manway nozzle and all appurtenances in contact with this area, finished with a reflective coat of white paint. ⁵ For inside diameter of 87 inches or less, the thickness of plates shall be not less than ½ inch. ⁵ See AAR Specifications for Tank Cars, appendix E, E4.0¹ (IBR, see § 171.7 of this subchapter), and § 179.103–2. ⁻ When the use of nickel is required by the lading, the thickness shall not be less than two inches.